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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/765,601	01/27/2004	Tetsuhiro Sakamoto	075834.00452	1735
33448	7590 11/28/2005		EXAM	INER
ROBERT J. DEPKE LEWIS T. STEADMAN TREXLER, BUSHNELL, GLANGLORGI, BLACKSTONE & MARR 105 WEST ADAMS STREET, SUITE 3600 CHICAGO, IL 60603-6299			BERNATZ, KEVIN M	
			ART UNIT	PAPER NUMBER
			1773	
			DATE MAILED: 11/28/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/765,601	SAKAMOTO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Kevin M. Bernatz	1773				
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	ith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REWHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the maximum date of the maximum statutory.	DATE OF THIS COMMUNION 1.136(a). In no event, however, may a like will apply and will expire SIX (6) MON atute, cause the application to become Al	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on _		• •				
2a) This action is FINAL . 2b) T	his action is non-final.					
3) Since this application is in condition for allow	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice unde	er <i>Ex parte Quayl</i> e, 1935 C.D	D. 11, 453 O.G. 213.				
Disposition of Claims		-				
4)⊠ Claim(s) 1 and 2 is/are pending in the appli	cation.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>1 and 2</u> is/are allowed.						
6)☐ Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction an	d/or election requirement.					
Application Papers	·					
9)⊠ The specification is objected to by the Exam	niner.					
10)⊠ The drawing(s) filed on <u>27 January 2004</u> is/s		objected to by the Examiner.				
Applicant may not request that any objection to	the drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the con	rection is required if the drawing	g(s) is objected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the	Examiner. Note the attache	d Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for fore a)⊠ All b)□ Some * c)□ None of: 1.⊠ Certified copies of the priority documents. 2.□ Certified copies of the priority documents.	ents have been received.					
3. Copies of the certified copies of the p	priority documents have beer	received in this National Stage				
application from the International Bur						
* See the attached detailed Office action for a	list of the certified copies not	received.				
Attachment(s)						
1) 🔀 Notice of References Cited (PTO-892)		Summary (PTO-413)				
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/ 		(s)/Mail Date Informal Patent Application (PTO-152)				
Paper No(s)/Mail Date	6) Other:	·				

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DETAILED ACTION

Response to Amendment

1. This application is in condition for allowance except for the following formal matters:

Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph within the range of 50 to 150 words (37 CFR 1.72). See MPEP § 608.01(b).

The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

Prosecution on the merits is closed in accordance with the practice under *Ex* parte Quayle, 1935 C.D. 11, 453 O.G. 213.

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A shortened statutory period for reply to this action is set to expire **TWO**MONTHS from the mailing date of this letter.

Reasons for Allowance

2. The present claims are deemed allowable over the references indicated below since the references indicated below fail to disclose or render obvious a magneto-optical (MO) recording medium meeting the claimed limitations.

While Aratani et al. (U.S. Patent No. 6,572,957 B1) disclose a MO recording medium including four magnetic layers, Aratani et al. fail to teach or render obvious controlling Tc3>Tc2 and Ku3 > Ku2 (see especially claim 1).

While Mori et al. (U.S. Patent No. 6,707,766 B2) disclose a MO recording medium including four magnetic layers, Mori et al. fail to teach or render obvious controlling Ku3 > Ku2 (see especially columns 12 – 13).

While Tanaka et al. (U.S. Patent No. 6,770,387 B2) disclose a MO recording medium including four magnetic layers, Tanaka et al. fail to teach or render obvious controlling Tc3 > Tc2, Ku3 > Ku2, whether the medium is a domain wall displacement detection (DWDD) type, or whether the movement of the front spot is enlarged and the movement of the domain wall in the rear part of the spot is suppressed (see especially Figure 1 and columns 7-90.

While Shiratori (U.S. patent No. 6,197,440 B1) disclose a MO recording medium including four magnetic layers, Shiratori fails to teach or render obvious controlling Tc1 > Tc2, Tc3 > Tc2 and Ku3 > Ku2 (see especially Figures 2 – 4 and columns 6 – 10).

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While Aoki (U.S. Patent No. 6,894,954 B2) and Iwata et al. (U.S. Patent No. 6,949,302 B2) disclose front-domain-enlarging DWDD-type media, neither of these references disclose four-layered media and hence, fail to teach or render obvious the controlling of the various Tc and Ku parameters to within applicants' claimed relative magnitudes.

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin M. Bernatz whose telephone number is (571) 272-1505. The examiner can normally be reached on M-F, 9:00 AM - 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carol Chaney can be reached on (571) 272-1284. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KMB November 20, 2005 Kevin M. Bernatz, PhD Primary Examiner